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## INDEX TO AMERICAN BOTANICAL LITERATURE

1914

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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**Appleman, C. O.** Biochemical study of after-ripening in the potato tuber. *Science* II. **39**: 294. 20 F 1914.

**Appleman, C. O.** Metabolic changes in potato tubers during sprouting. *Science* II. **39**: 293, 294. 20 F 1914.

**Arthur, J. C., & Kern, F. D.** North American species of *Peridermium* on pine. *Mycologia* **6**: 109-138. 30 My 1914.

Includes *Peridermium guatemalense* and *P. californicum*, spp. nov.

**Bailey, I. W., & Ames, J. S.** Primitive characters recalled by the chestnut-bark disease and other stimuli. *Science* II. **39**: 290. 20 F 1914.

**Bailey, V.** The wild cotton plant (*Thurberia thespesioides*) in Arizona. *Bull. Torrey Club* **41**: 301-306. f. 1, 2. 30 My 1914.

**Bancroft, C. K.** Fungus notes. *Jour. Bd. Agr. Brit. Guiana* **7**: 141. Ja 1914.

**Bancroft, C. K., & Hunte, R. L.** A fungus disease of "peppers" (*Capsicum* spp.), *Colletotrichum nigrum*. *Jour. Bd. Agr. Brit. Guiana* **7**: 139-140. Ja 1914.

**Beattie, F. S.** *Georgia geniculata* in New Hampshire. *Bryologist* **17**: 48. 11 Je 1914.

**Belling, J.** A study of semi-sterility. *Jour. Heredity* **5**: 65-73. f. 5-10. 30 Ja 1914.

- Berry, E. W.** Contributions to the Mesozoic flora of the Atlantic coastal plain, X.—Maryland. Bull. Torrey Club **41**: 295-300. 30 My 1914.
- Berry, E. W.** Two new tertiary species of *Trapa*. Torreyia **14**: 105-108. f. 1. 8 Je 1914.  
*Trapa wilcoxensis* and *T. alabamensis*, spp. nov.
- Bisset, P.** The James River walnut. Jour. Heredity **5**: 98-101. f. 1, 2. 28 F 1914.
- Blodgett, F. H.** Development of the embryo and the germination in *Lemna perpusilla*. Science II. **39**: 292. 20 F 1914.
- Blodgett, F. H.** Homologies of the frond in *Lemna*. Science II. **39**: 291, 292. 20 F 1914.
- Brainerd, E.** The blackberries of Vermont. Bull. Vermont Bot. Club **9**: 9-15. Ap 1914.
- Britton, E. G.** The preservation of our native plants. Jour. N. Y. Bot. Gard. **15**: 113, 114. My 1914.
- Britton, N. L.** Botanical exploration in Porto Rico and islands adjacent. Jour. N. Y. Bot. Gard. **15**: 95-103. pl. 132-134. My 1914.
- Britton, N. L.** Charles Budd Robinson. Jour. N. Y. Bot. Gard. **15**: 106. My 1914.
- Brown, N. A.** A snapdragon wilt due to *Verticillium*. Phytopathology **4**: 217. 25 Je 1914.
- Bryan, G. S.** The archegonium of *Sphagnum subsecundum*. Science II. **39**: 290. 20 F 1914.
- Butler, O.** Bordeaux mixture: I. Physico-chemical studies. Phytopathology **4**: 125-180. pl. 7, 8 + f. 1-3. 25 Je 1914.
- Caldwell, J. S.** The effect of antagonistic or balanced solutions containing sodium chloride together with one of the chlorides of calcium, magnesium, potassium, strontium, ammonium, or copper, upon the growth of corn plants rooted in an artificial soil. Science II. **39**: 293. 20 F 1914.
- Campbell, D. H.** On the structure and relationships of *Macroglossum*. Science II. **39**: 290, 291. 20 F 1914.
- Candolle, C. de.** Piperaceae. II. In Pax F., Plantae novae Bolivianae—VI. Repert. Sp. Nov. **13**: 304-311. 5 My 1914.  
Includes eight new species in *Peperomia* and five in *Piper* from Bolivia.
- Castle, W. E.** An apple chimera. Jour. Heredity **5**: 200-202. f. 8. 25 Ap 1914.
- Castle, W. E.** Pure lines and selection. Jour. Heredity **5**: 93-97. 28 F 1914.

- Collins, F. S.** *Opuntia vulgaris* on Cape Cod. *Rhodora* **16**: 101-104. 8 Je 1914.
- Collins, G. N.** Pueblo Indian maize breeding. *Jour. Heredity* **5**: 255-268. f. 5-13. 25 My 1914.
- Cook, M. T.** Notes on economic fungi. *Phytopathology* **4**: 201-203. f. 1, 2. 25 Je 1914.
- Cook, M. T., & Wilson, G. W.** *Cladosporium* disease of *Ampelopsis tricuspidatum*. *Phytopathology* **4**: 189, 190. f. 1. 25 Je 1914.
- Cook, O. F.** The existence of species. *Jour. Heredity* **5**: 155-158. 26 Mr 1914.
- Cook, O. F.** Sexual inequality in hemp. *Jour. Heredity* **5**: 203-206. f. 9, 10. 25 Ap 1914.
- Deane, W.** William Whitman Bailey. *Rhodora* **16**: 97-101. 8 Je 1914.
- Denslow, H. M.** Notes on some orchids of Fairlee, Vt. *Bull. Vermont Bot. Club* **9**: 23-25. Ap 1914.
- Eggleston, W. W.** A trip to Stanislaus forest, California. *Bull. Vermont Bot. Club* **9**: 22, 23. Ap 1914.
- Engler, A.** Influence of source of seed. *Jour. Heredity* **5**: 185, 186. 26 Mr 1914.
- Fernald, M. L.** The narrow-leaved variety of *Salix pyrifolia*. *Rhodora* **16**: 116. 8 Je 1914.  
*Salix pyrifolia* Anderss. var. *lanceolata* (Bebb.).
- Freeman, G. F.** Physiological correlations and climatic reactions in alfalfa breeding. *Am. Nat.* **48**: 356-368. Je 1914.
- Gerould, J. H.** Species-building by hybridization and mutation. *Am. Nat.* **48**: 321-338. Je 1914.
- Gilbert, A. W.** The science of genetics. *Jour. Heredity* **5**: 235-243. f. 1, 2. 25 My 1914.
- Greene, E. L.** *Novitates boreali-americanae*. VII. *Repert Sp. Nov.* **13**: 320-324. 5 My 1914.  
Includes new species in *Aquilegia* (2), *Aconitum* (1), *Vancouveria* (5), *Dodecatheon* (2), *Callisteris* (1), and *Agoseris* (1).
- Griffiths, D.** "Reversion" in prickly pears. *Jour. Heredity* **5**: 222-225. f. 13, 14. 25 Ap 1914.
- Hamet, R.** Über zwei neue amerikanische *Sedum*. *Bot. Jahrb. Beib.* **50**: 25-27. 5 My 1914.
- Harper, R. A.** Physical factors in cleavage of coenocytes. *Science* **II. 39**: 295. 20 F. 1914.

- Hasse, H. E.** A new *Reinkella* from Mexico,—*Reinkella Parishii* Hasse. *Bryologist* **17**: 45, 46. 11 Je 1914.
- Hedgcock, G. G.** Notes on some diseases of trees in our national forests—IV. *Phytopathology* **4**: 181–188. 25 Je 1914.
- Hedgcock, G. G., & Long, W. H.** The alternate stage of *Peridermium pyriforme*. 1–3. Washington. 12 Je 1914.
- Herter, W.** *Lycopodium Sydowiorum* spec. nov. *Repert. Sp. Nov.* **13**: 296. 5 My 1914.
- Hill, E. J.** Whorled leaves in *Gentiana*. *Torreyia* **14**: 108. 8 Je 1914.
- Holzinger, J. M.** *Hypopterygium japonicum* in North America. *Bryologist* **17**: 44, 45. *pl. 9*. 11 Je 1914.
- Howe, I. A.** Botanizing at St. Johnsbury. *Bull. Vermont Bot. Club* **9**: 26, 27. Ap 1914.
- Howe, M. A.** Some midwinter algae of Long Island Sound. *Torreyia* **14**: 97–101. 8 Je 1914.
- Hull, E. D.** Occurrence of the Indian pipe (*Monotropa uniflora*) in a xerophytic habitat. *Torreyia* **14**: 101–105. 8 Je 1914.
- Hume, H. H.** Planting persimmons. *Jour. Heredity* **5**: 131–138. *f. 16–19*. 28 F 1914.
- Hutchinson, J.** *Lonicera Ledebourii*. *Curt. Bot. Mag.* **IV. 10**: *pl. 8555*. My 1914.  
A plant from California.
- Jennings, O. E.** Notes on the pteridophytes of the north shore of Lake Superior—II. *Am. Fern Jour.* **4**: 68–73. Je 1914.
- Jennison, H. M.** Symbols vs. terminology in ascomycetes. *Phytopathology* **4**: 216. 25 Je 1914.
- Jewett, H. S.** An interesting moss. *Bryologist* **17**: 42–44. 11 Je 1914.  
*Ambystegium* sp.
- Johnson, J.** The control of damping-off disease in plant beds. *Wisconsin Agr. Exp. Sta. Research Bull.* **31**: 29–61. 1914. [Illust.]
- Keefer, W. E.** Pathological histology of *Endothia* canker of chestnut. *Phytopathology* **4**: 191–200. *f. 1–3*. 25 Je 1914.
- Kellerman, K. F.** Relation of bacterial transformations of soil nitrogen to nutrition of citrous plants. *Jour. Agr. Research* **2**: 101–113. *f. 1–7*. 25 My 1914.
- Kirk, G. L.** *Aspidium Filix-mas* in western Vermont. *Bull. Vermont Bot. Club* **9**: 28. Ap 1914.
- Knowlton, C. H.** Ferns and their allies in southern Franklin County, Maine. *Am. Fern Jour.* **4**: 57–64. Je 1914. [Illust.]

- Knowlton, C. H.** The original flora of the Old Colony. *Rhodora* **16**: 113-116. 8 Je 1914.  
Plymouth Colony.
- Knowlton, C. H., & Deane, W.** Reports of the flora of the Boston district,—XIX. *Rhodora* **16**: 106-113. 8 Je 1914.
- Kunkel, L. O.** Physical and chemical factors influencing the toxicity of inorganic salts to *Monilia sitophila* (Mont.) Sacc. Bull. Torrey Club **41**: 265-293. f. 1, 2. 30 My 1914.
- Long, W. H.** The death of chestnuts and oaks due to *Armillaria mellea*. U. S. Dept. Agr. Bull. 89: 1-9. pl. 1, 2. 22 My 1914.
- Lorenz, A.** Notes on Maine Hepaticae and their comparison with the Hepaticae of the Sarekgebirge. Bryologist **17**: 28, 29. 24 Mr 1914; Bryologist **17**: 40-42. 11 Je 1914.
- Macoun, J.** List of plants in flower in the vicinity of Sidney, Vancouver Island, March 1914. Ottawa Nat. **28**: 36-38. My 1914.
- Macbride, T. H.** Mountain Myxomycetes. Mycologia **6**: 146-149. 30 My 1914.
- Maney, T. J.** Effect of potato scab treatments on seed vitality. Formaldehyde and corrosive sublimate solutions and formaldehyde gas. Iowa Agr. Exp. Sta. Bull. 148: 39-60. pl. 1-13. Ap 1914.
- Mansfield, W.** The papain of commerce. Practical Druggist **32**: 244-246. Je 1914. [Illust.]  
*Carica Papaya*.
- McAllister, F.** The pyrenoid of *Anthoceros*. Science II. **39**: 295. 20 F 1914.
- McCubbin, W. A.** Photographing leaf spots. Phytopathology **4**: 215. 25 Je 1914.
- Merrill, G. K.** Lichens from Vancouver Island. Ottawa Nat. **28**: 33-36. My 1914.  
Includes *Arthonia Macounii* sp. nov.
- Meyer, F. N.** Collecting in Turkestan. Jour. Heredity **5**: 159-169. f. 4-10. 26 Mr 1914.
- Meyer, F. N.** Seeking plant immigrants. Jour. Heredity **5**: 111-121. f. 4-11. 28 F 1914.
- Morgan, E. D.** Medicinal plants of Hartland. Bull. Vermont Bot. Club **9**: 15-20. Ap 1914.
- Morris, R. T.** Chestnut blight resistance. Jour. Heredity **5**: 26-29. f. 14, 15. 28 D 1913.
- Mottier, D. M.** Resistance of certain fern prothallia to extreme desiccation. Science II. **39**: 295. 20 F 1914.

- Muncie, J. H.** Two Michigan bean diseases. Michigan Agr. Exp. Sta. Special Bull. 68: 1-12. Mr 1914. [Illust.]  
*Glomerella (Colletotrichum) Lindemuthiana* and *Bacterium Phaseoli*.
- Murrill, W. A.** *Agaricus xylogenus* Mont. Mycologia 6: 151, 152. 30 My 1914.
- Nagel, K.** Kartographische Darstellung der Verbreitung der Juglandaceen. Bot. Jahrb. 50: 531. pl. 5, 6. 5 My 1914.
- Nagel, K.** Studien über die Familie der Juglandaceen. Bot. Jahrb. 50: 459-530. pl. 4 + f. 1. 5 My 1914.
- Newcombe, F. C.** Twining of plants as related to withdrawal of light. Science II. 39: 294. 20 F 1914.
- Noble, M. A.** Fern hunting in Florida, in the phosphate country. Am. Fern Jour. 4: 65, 66. Je 1914.
- Osterhout, W. J. V.** The chemical dynamics of living protoplasm. Science II. 39: 292. 20 F 1914.
- Osterhout, W. J. V.** Differential permeability. Science II. 39: 293. 20 F 1914.
- Palmer, E. J.** *Ophioglossum Engelmanni* in Missouri. Am. Fern Jour. 4: 66-68. Je 1914.
- Peltier, G. L.** Report of the Illinois [floricultural] pathologist. Am. Florist 42: 432-434. 21 Mr 1914.  
 This report is especially devoted to carnation diseases.
- Pittier, H.** Malvales novae panamenses. Repert. Sp. Nov. 13: 312-320. 5 My 1914.  
 Includes the new genera *Goethalsia* and *Gyranthera*, and new species in *Theobroma* (2), *Gyranthera* (1), *Quararibea* (2), *Pachira* (2), *Bombax* (1), *Goethalsia* (1), *Belotia* (1), and *Sloanea* (2).
- Pool, V. W., & McKay, M. B.** *Puccinia subnitens* in the sugar beet. Phytopathology 4: 204-206. pl. 9. 25 Je 1914.
- [**Popenoe, P.**] Origin of the banana. Jour. Heredity 5: 273-280. f. 16, 17 + frontispiece. 25 My 1914.
- [**Popenoe, P.**] Three new nuts. Jour. Heredity 5: 179-184. f. 14-16. 26 Mr 1914.  
 Pili nut from Philippines (*Canarium ovatum*), Paradise nut (*Lecythida zabucajo*) from Brazil, and Queensland nut (*Macadamia ternifolia*).
- Purpus, J. A.** *Echeveria leucotricha* J. A. Purpus spec. nov. Monats. Kakteenk. 24: 65, 66. 15 My 1914. [Illust.]
- Rabak, F.** Aroma of hops: a study of the volatile oil with relation to the geographical sources of the hops. Jour. Agr. Research 2: 115-159. f. 1-14. My 1914.

- Reddick, D.** Diseases of the violet. *Am. Florist* **42**: 496-501. 28 Mr 1914.
- Reed, G. M.** Influence of light on infection of certain hosts of powdery mildews. *Science* II. **39**: 294, 295. 20 F 1914.
- Rees, H. L.** Bitter rot of apples in the Pacific northwest. *Phytopathology* **4**: 217-219. 25 Je 1914.
- Rusby, H. H.** Tropical vegetable foods. *Jour. N. Y. Bot. Gard.* **15**: 107-112. My 1914.
- Schlechter, R.** *Philibertia* H. B. et Kth. und *Funastrum* Fourn. *Repert. Sp. Nov.* **13**: 279-287. 5 My 1914.
- Schuh, R. E.** The discovery of the long-sought alga, *Stictyosiphon tortilis*. *Rhodora* **16**: 105. 8 Je 1914.
- Schwarze, C. A.** Relation of the mosaic of the pepper and the filiform leaf of the tomato to the mosaic of the tobacco. *Phytopathology* **4**: 42. 11 Mr 1914.
- Seaver, F. J.** Observations on *Sphaerosoma* and allied genera. *Mycologia* **6**: 103-108. *pl.* 123. 30 My 1914.
- Shafer, J. A.** Botanical exploration on the island of Vieques, Porto Rico. *Jour. N. Y. Bot. Gard.* **15**: 103-105. My 1914.
- Slosson, M.** Notes on two North American ferns. *Bull. Torrey Club* **41**: 307-309. *pl.* 7. 30 My 1914.  
Includes *Adiantum rimicola* sp. nov.
- Stewart, A.** Some observations on the anatomy and other features of the black knot. *Science* II. **39**: 291. 20 F 1914.
- Swingle, W. T.** *Eremocitrus*, a new genus of hardy, drouth-resistant citrous fruits from Australia. *Jour. Agr. Research* **2**: 85-100. *pl.* 8 + f. 1-7. My 1914.
- Thellung, A.** *Lepidium bonariense* L. novis varietatibus ex herbario Stuckertiano auctum. *Repert. Sp. Nov.* **13**: 301-303. 5 My 1914.
- Trabut, L.** Origin of cultivated oats. *Jour. Heredity* **5**: 74-85. *f.* 11-20. 30 Ja 1914.
- Tracy, H. H.** Ferns collected in the Noyo River Canyon, Mendocino Co., Calif., Aug. 10-14. *Am. Fern Jour.* **4**: 64, 65. Je 1914.
- True, R. H.** The harmful action of distilled water. *Science* II. **39**: 295, 296. 20 F 1914.
- Ule, E.** Beiträge zur Kenntniss der brasilianischen *Manihot*-Arten. *Bot. Jahrb. Beib.* **50**: 1-12. 5 My 1914.  
Includes descriptions of two new species.



- Ule, E.** *Hevea brasiliensis* Müll. Arg. im überschwemmungsfreien Gebiet des Amazonenstromes. Bot. Jahrb. Beib. **50**: 13–18. 5 My 1914.
- Van Bambeke, C.** Apropos du polymorphisme de *Ganoderma lucidum* (Leys). Bull. Soc. Roy. Bot. Belgique **52**: 127–133. pl. 3. Mr 1914.
- Van Fleet, W.** Chestnut-breeding experience. Jour. Heredity **5**: 19–25. f. 9–13. 28 D 1913.
- Weir, J. R.** Two new wood-destroying fungi. Jour. Agr. Research **2**: 163–167. pl. 9, 10. My 1914.  
*Fomes putearius* and *Trametes setosus* spp. nov.
- Weingart, W.** *Cereus Martinii* Lab. var. *perviridis* Weing. var. nov. Monats. Kakteenk. **24**: 72–78. 15 My 1914.
- Wester, P. J.** The determination of sex. Jour. Heredity **5**: 207, 208. 25 Ap 1914.
- Wheeler, L. A.** New West River Valley plants. Bull. Vermont Bot. Club **9**: 27. Ap 1914.
- Zeller, S. M.** The development of *Stropharia ambigua*. Mycologia **6**: 139–145. pl. 124, 125. 30 My 1914.